

AMENDMENTS TO THE CLAIMS

The claims in this listing will replace all prior versions, and listings of claims in the application.

Listing of Claims:

1. (Canceled)

2. (Currently amended) ~~[[The]]~~ A radio reception apparatus according to claim 1,
comprising:

a receiver configured to receive a signal on a per time unit basis, the received
signal including a known signal pattern on a predetermined per time unit basis;

an adjuster configured to adjust a filter for filtering the received signal using the
known signal pattern on a per time unit basis; and

a canceller configured to cancel an interference component included in the time
unit using the adjusted filter;

wherein the adjuster ~~includes~~ comprises:

a modulation scheme determiner determination section that configured to
process likelihoods calculated for individual modulation schemes and to determine the
modulation using the known signal pattern determines a modulation scheme on a per
said processing unit basis using the known signal pattern; and

a tap coefficient ~~controller control section configured to control that~~
controls tap coefficients to set ~~[[to]]~~ the filter according to the determined modulation
scheme.

3. (Currently amended) ~~[[The]]~~ A radio reception apparatus according to claim 1,
comprising:

a receiver configured to receive a signal on a per time unit basis, the received
signal including a known signal pattern on a predetermined per time unit basis;

an adjuster configured to adjust a filter for filtering the received signal using the
known signal pattern on a per time unit basis; and

a canceller configured to cancel an interference component included in the time
unit using the adjusted filter;

wherein the adjuster ~~adjusting section includes~~ comprises:

a frequency ~~converter conversion section configured to perform that~~
performs a frequency analysis of the received signal; and

an interference level ~~detector detecting section configured to detect that~~
detects adjacent channel interference from a result of the frequency analysis;

a modulation scheme determiner configured to process likelihoods
calculated for individual modulation schemes and to determine the modulation using the
known signal pattern; and

a tap coefficient controller configured to control tap coefficients to set the
filter according to the determined modulation scheme and a detection result of adjacent

~~channel interference and determines tap coefficients to set to the filter according to the detection result.~~

4. (Currently amended) ~~[[The]]~~ A radio reception apparatus according to claim 1,
comprising:

a receiver configured to receive a signal on a per time unit basis, the received signal including a known signal pattern on a predetermined per time unit basis;

an adjuster configured to adjust a filter for filtering the received signal using the known signal pattern on a per time unit basis; and

a canceller configured to cancel an interference component included in the time unit using the adjusted filter;

a transmission path characteristic estimator configured to estimate a transmission path characteristic using the known signal pattern included in the received signal from which interference is canceled;

wherein the adjuster ~~adjusting section includes~~ comprises:

an error measurer measuring section configured to measure ~~that measures~~ an error of the received signal that occurs due to a transmission path characteristic by comparing the known signal pattern included in the received signal with a known signal pattern obtained by canceling the transmission path characteristic on a per said processing unit basis using the known signal pattern; and

a tap coefficient controller ~~control section configured to control~~ that controls tap coefficients to set ~~[[to]]~~ the filter based on the measured error and a reception level of the received signal.

5. (Currently amended) The radio reception apparatus according to claim [[1]] 2,
wherein the canceller ~~includes~~ comprises
a plurality of filters having different filter characteristics; and
wherein the ~~adjusting section~~ adjuster ~~comprises~~ includes: a modulation scheme
~~determining section that determines the modulation scheme on a per said processing~~
~~unit basis using the known signal pattern; and a filter~~ selector ~~selection section~~
configured to select ~~that selects~~ one of the plurality of filters according to the determined
modulation scheme.
6. (Currently amended) The radio reception apparatus according to claim [[1]] 2,
wherein the canceller ~~canceled section~~ cancels adjacent channel interference or inter-
symbol interference.
7. (Currently amended) The radio reception apparatus according to claim [[1]] 2,
wherein the adjuster ~~adjusting section~~ adjusts a filter characteristic of the filter in such a
way that a combined characteristic of said filter with a baseband filter at a
communicating partner station has a Nyquist characteristic.
8. (Currently amended) A communication terminal apparatus including ~~having~~ the radio
reception apparatus recited in claim [[1]] 2.
9. (Currently amended) A base station apparatus including ~~having~~ the radio reception
apparatus recited in claim [[1]] 2.

10. (Currently amended) A reception filtering method comprising ~~the steps of:~~

receiving a signal on a per time processing unit basis, the received signal said
~~processing unit~~ including a known signal pattern on a predetermined per time unit basis;

adjusting a filter for filtering the received signal using the known signal pattern on
a per time unit basis ~~in the processing unit;~~ and

canceling an interference component included in the time unit ~~the processing unit~~
using the adjusted filter,

wherein the adjusting comprises

processing likelihoods calculated for individual modulation schemes;

determining a modulation scheme using the known signal pattern; and

controlling tap coefficients to set the filter according to the determined
modulation scheme.